



PASSAIC STEEL COMPANY



Paterson, N.J.
Structural Steel.

New York Office
Hanover Bank Building
5. Nassau St.

THE LIBRARIES

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PASSAIC STEEL COMPANY,

OF NEW JERSEY.

CAPITALIZATION.

Capital Stock, Full-paid and Non-assessable,	\$5,000,000
Bonds Issued,	\$2,000,000
Reserved in Treasury for Improvements	<u>500,000</u>
Total Authorized Issue,	\$2,500,000

BOARD OF DIRECTORS.

HENRY F. BELL,	Paterson, N. J. President Citizens' Trust Co.	B. NICOLL,	New York City. B. Nicoll & Co., Pig Iron.
J. BARCLAY COOKE,	Paterson, N. J. Secretary and Treasurer.	DUDLEY PHELPS,	New York City. Knevals & Perry.
WALTER E. COOKE,	New York City. Lawyer.	F. F. SEARING,	Paterson, N. J. Vice-President Citizens' Trust Co. Frederick F. Searing & Co., Bankers, N. Y. City.
A. C. FAIRCHILD,	Paterson, N. J. President.	THOMAS B. SIMPSON,	Philadelphia, Pa. President Transit Finance Co.
CHARLES HARRIS,	New York City. Iron and Steel.	LOUIS A. WATRES,	Scranton, Pa. President Title Guarantee & Trust Co.
STANLEY R. KETCHAM,	Philadelphia, Pa. Treasurer Transit Finance Co.	GEORGE ARNOLD,	Paterson, N. J. President American Silk Dyeing & Finishing Co.
GEORGE A. LEE,	Philadelphia, Pa. Chairman Transit Finance Co.	JOHN R. LEE	Paterson, N. J. Railroad Contractor.

OFFICERS.

A. C. FAIRCHILD, PRESIDENT.

F. F. SEARING, VICE-PRESIDENT.

J. BARCLAY COOKE, SECRETARY and TREASURER.

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A. C. FAIRCHILD, President.
F. F. SEARING, Vice-President.

J. B. COOKE, Secretary and Treasurer.
G. H. BLAKELEY, Chief Engineer.

PASSAIC STEEL COMPANY,

PATERSON, NEW JERSEY.

MANUFACTURERS OF

Open Hearth Structural Steel and High Grade Iron

BEAMS, CHANNELS, ANGLES, TEES,
Z BARS, PLATES AND MERCHANT BARS.

Designers, Manufacturers and Contractors for all kinds of STRUCTURAL STEEL AND IRON WORK for
BRIDGES AND BUILDINGS.

Roofs, Power Stations, Train Sheds, Viaducts, Standard Railway Turntables, Eye Bars, Buckle Plates,
Sleeve Nuts, Rivets, and Structural Steel Work of all Descriptions.

GENERAL OFFICES,
STEEL WORKS, MILLS AND SHOPS,
PATERSON, N. J.

NEW YORK OFFICE,
HANOVER BANK BUILDING,
5 NASSAU STREET.



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INTRODUCTORY.

The PASSAIC STEEL COMPANY acquired the Passaic Rolling Mill Company by purchase on February 16th, 1903.

The Passaic Rolling Mill Company was established in 1867, and since 1870 has been continuously engaged in the manufacture of structural shapes of iron and steel, and in the manufacture and erection of structural iron and steel work for bridges and buildings. During the past thirty-three years the company has built many important and notable structures, and has achieved a valuable prestige and reputation for the high grade character of its work and for the satisfactory and prompt service rendered its patrons, which it is the purpose of the PASSAIC STEEL COMPANY to continue, improve and extend.

The PASSAIC STEEL COMPANY upon acquiring this property has proceeded at once to enlarge and improve the present plant. These improvements are now

well underway and will be completed by August 1st of the present year. When completed they will more than double the present output of the plant. The present capacity of the works is 40,000 tons per annum. When the improvements now under way are completed, the plant will have a capacity of 100,000 tons of finished structural steel work per annum.

From the raw material of pig iron and scrap to the finished product for the steel frame of the modern skeleton construction building, for the factory or mill building, for the steel bridge for railroad or city use, or for any purpose for which structural steel is used, all the intermediate operations of manufacture are conducted on the premises and at all times under the immediate personal supervision of the executive management of the company.

PASSAIC STEEL COMPANY.

PATERSON, N. J., May 1, 1903.





ILLUSTRATIONS

SHOWING THE WORKS OF THE



Passaic Steel Company



• • AT • •

PATERSON. - NEW JERSEY

May 1, 1903.



PASSAIC STEEL COMPANY.



THE GENERAL OFFICE AT THE WORKS.

PASSAIC STEEL COMPANY.



Steel Mill.

21 inch. Mill.

Structural Shops.

28 inch. Mill.

Puddle Mill.

Office.

GENERAL VIEW OF WORKS LOOKING WEST.

PASSAIC STEEL COMPANY.



Puddle
Mill.

Electric Power
House.

Machine
Shop.

Forge
Shop.

Steel
Works.

GENERAL VIEW OF WORKS LOOKING EAST.



PASSAIC STEEL COMPANY.



GENERAL VIEW OF THE STEEL MILL, LOOKING FROM SOUTHWEST.

PASSAIC STEEL COMPANY.



THE SHIPPING YARD.

PASSAIC STEEL COMPANY.



THE EXCAVATION FOR THE NEW STEEL WORKS, APRIL, 1903.

The new works will be completed by August 1st, 1903, and will more than double the present output of the plant.

PASSAIC STEEL COMPANY.



THE RAW MATERIALS.

PIG IRON AND SCRAP IRON STORAGE YARD AT REAR OF STEEL MILL.

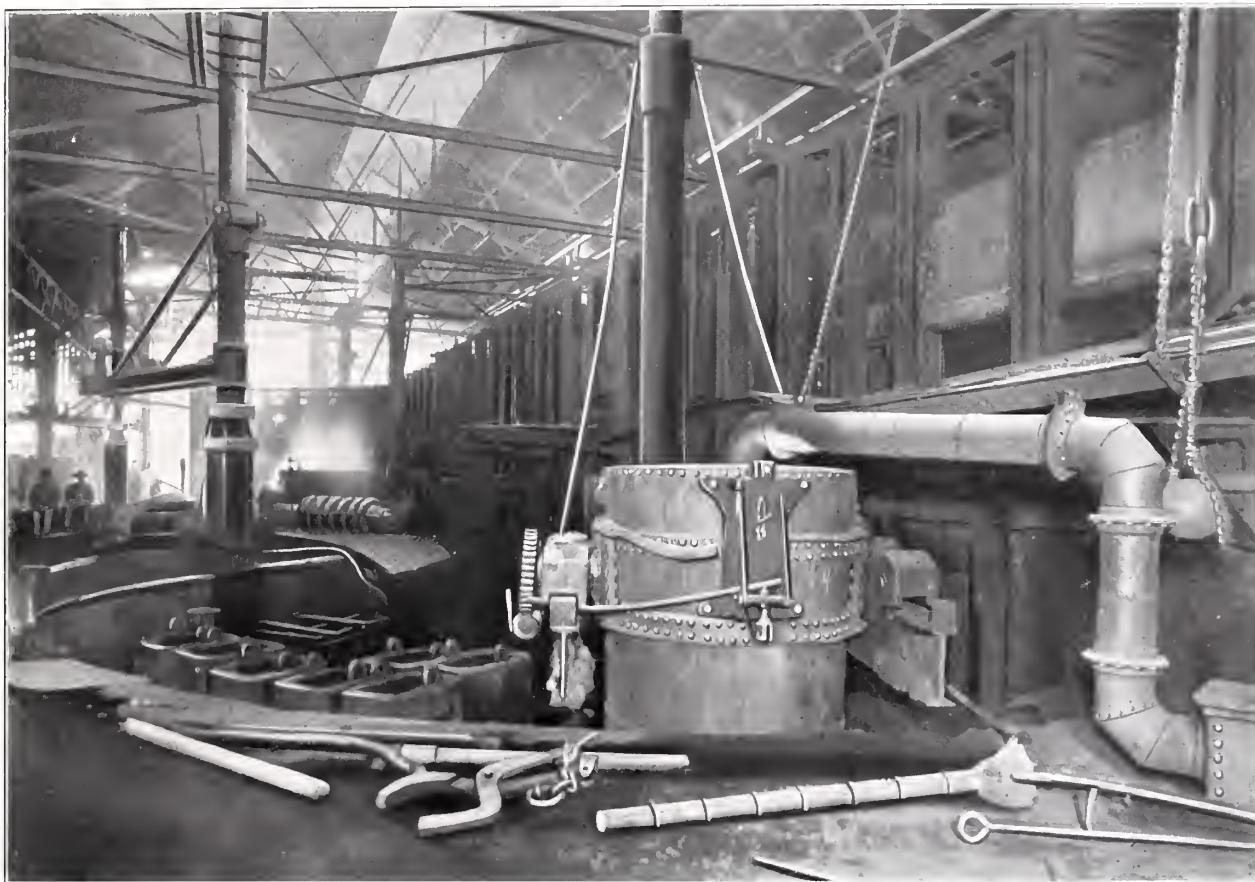
PASSAIC STEEL COMPANY.



THE OPEN HEARTH FURNACES.

ON THE CHARGING PLATFORM.

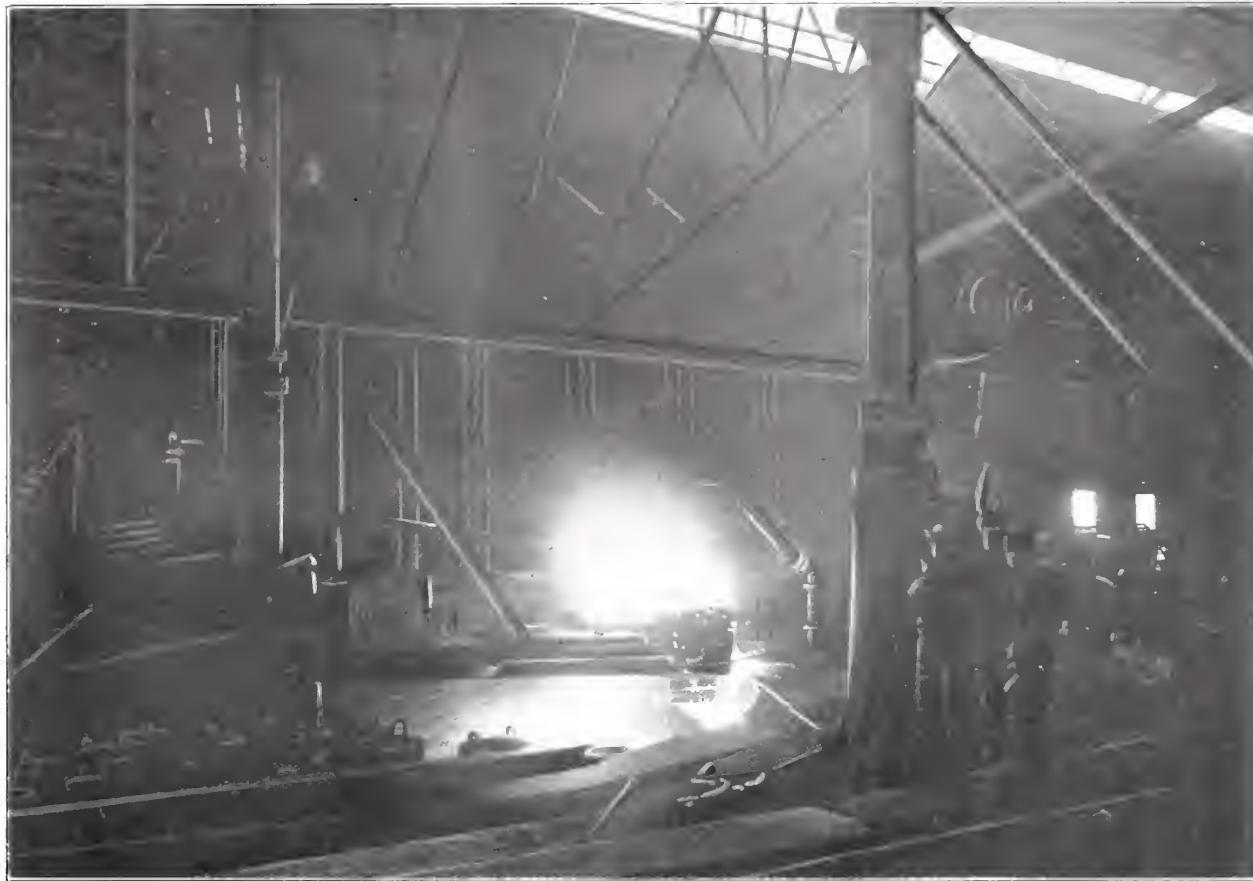
PASSAIC STEEL COMPANY



THE OPEN HEARTH STEEL FURNACES.

SHOWING CASTING PITS, LADLE CRANES AND INGOT MOULDS.

PASSAIC STEEL COMPANY.



POURING A HEAT OF STEEL.

FROM THE OPEN HEARTH FURNACE INTO THE LADLE.

PASSAIC STEEL COMPANY.



CASTING THE INGOTS.

POURING THE MOLTEN STEEL FROM THE LADLE INTO THE INGOT MOULDS.

PASSAIC STEEL COMPANY.



THE SOAKING PIT FURNACES.

Taking a Two Ton Heated Ingot to the Blooming Mill to be Rolled into Billets.

PASSAIC STEEL COMPANY.



VIEW IN THE BLOOMING MILL.

WHERE THE INGOTS ARE ROLLED DOWN INTO BILLETS.

PASSAIC STEEL COMPANY.



GENERAL VIEW IN THE BLOOMING MILL.

PASSAIC STEEL COMPANY.



ELECTRIC CHARGING MACHINE.

Taking a hot billet out of the Heating Furnaces to be rolled into a finished steel beam.

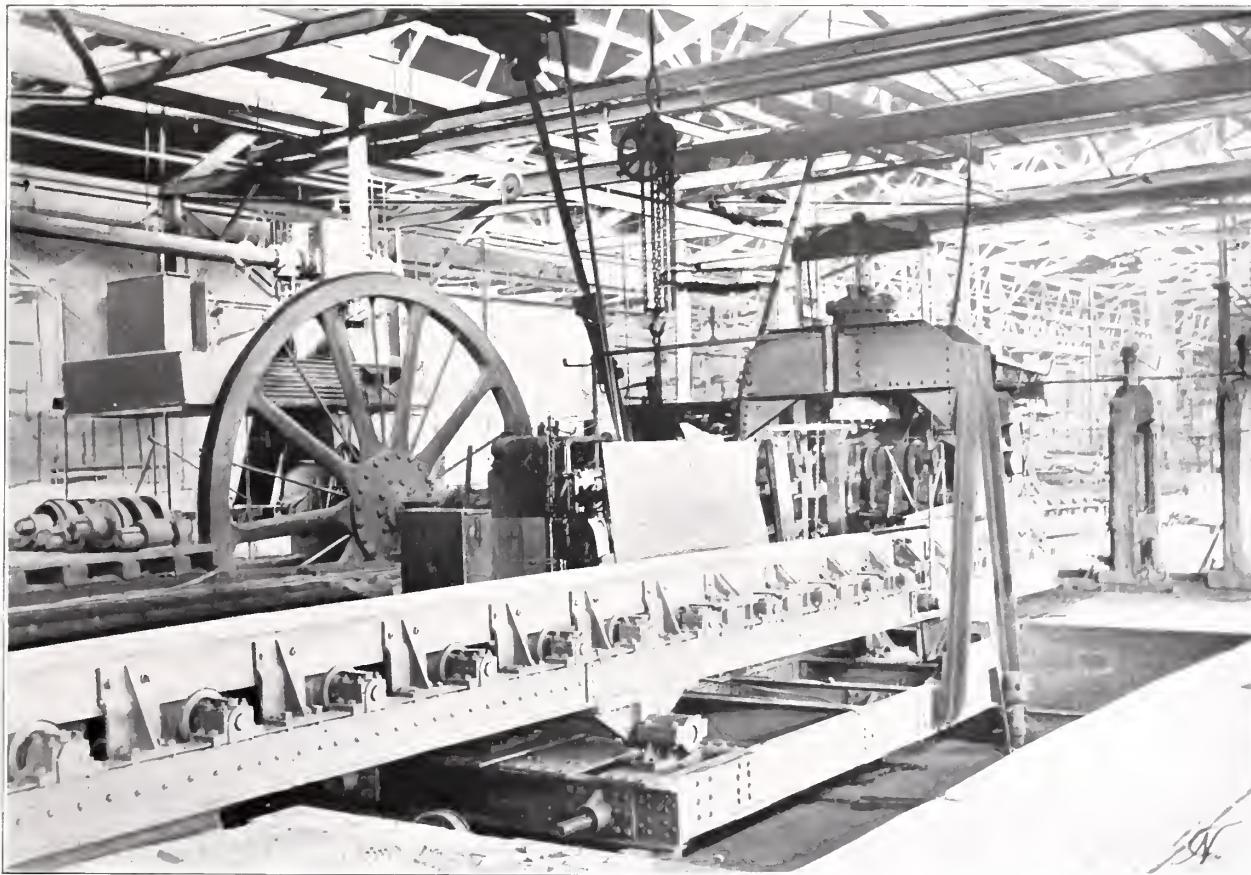
PASSAIC STEEL COMPANY.



GENERAL VIEW OF THE SMALL BEAM MILL.

On which the larger size Angles and the smaller sizes of Beams and Channels are finished.

PASSAIC STEEL COMPANY.



ANOTHER VIEW OF THE SMALL BEAM MILL.

SHOWING ONE OF THE TILTING ROLLER TRANSFER TABLES.

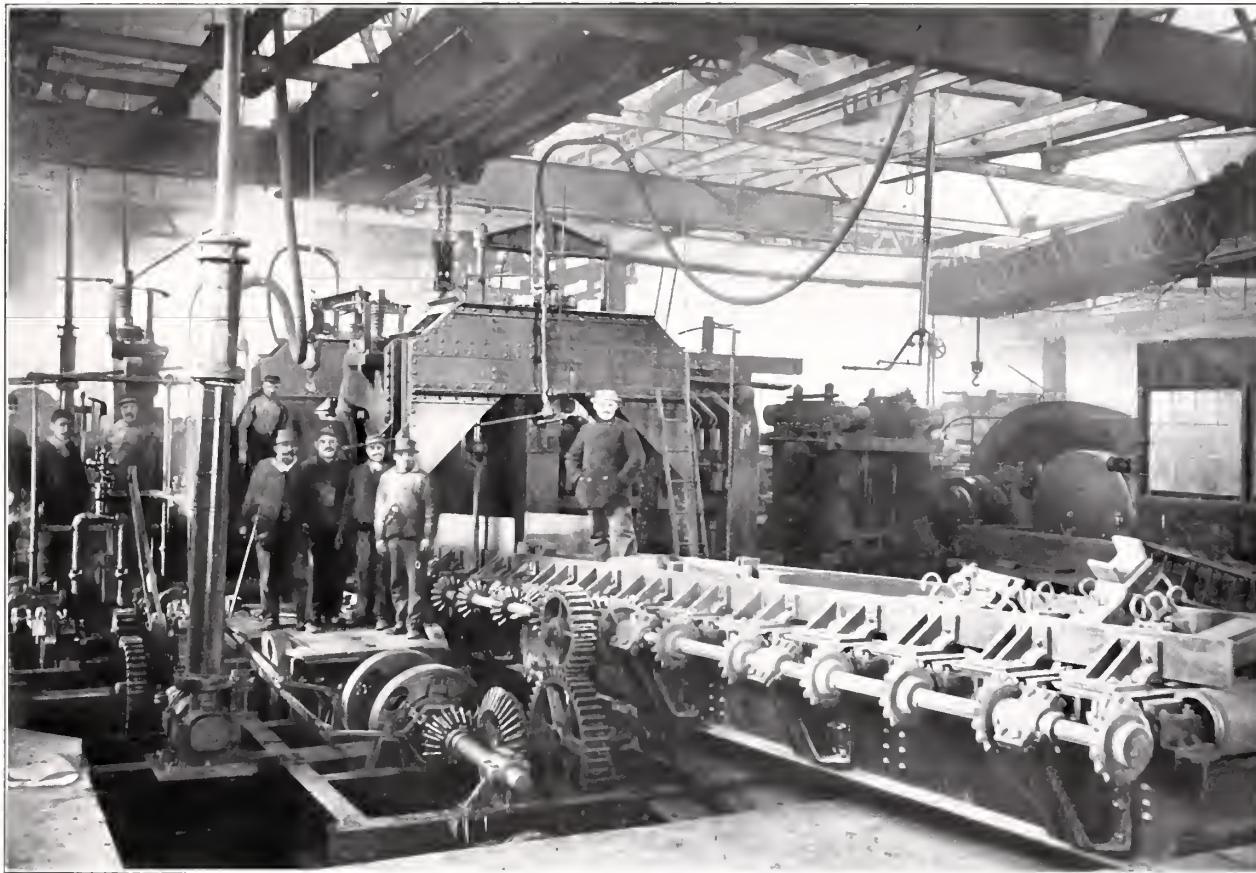
PASSAIC STEEL COMPANY.



VIEW OF THE LARGE BEAM MILL.

On which the larger sizes of Beams and Channels are finished.

PASSAIC STEEL COMPANY.



ANOTHER VIEW OF THE LARGE BEAM MILL.

SHOWING ONE OF THE ROLLER TRANSFER TABLES.

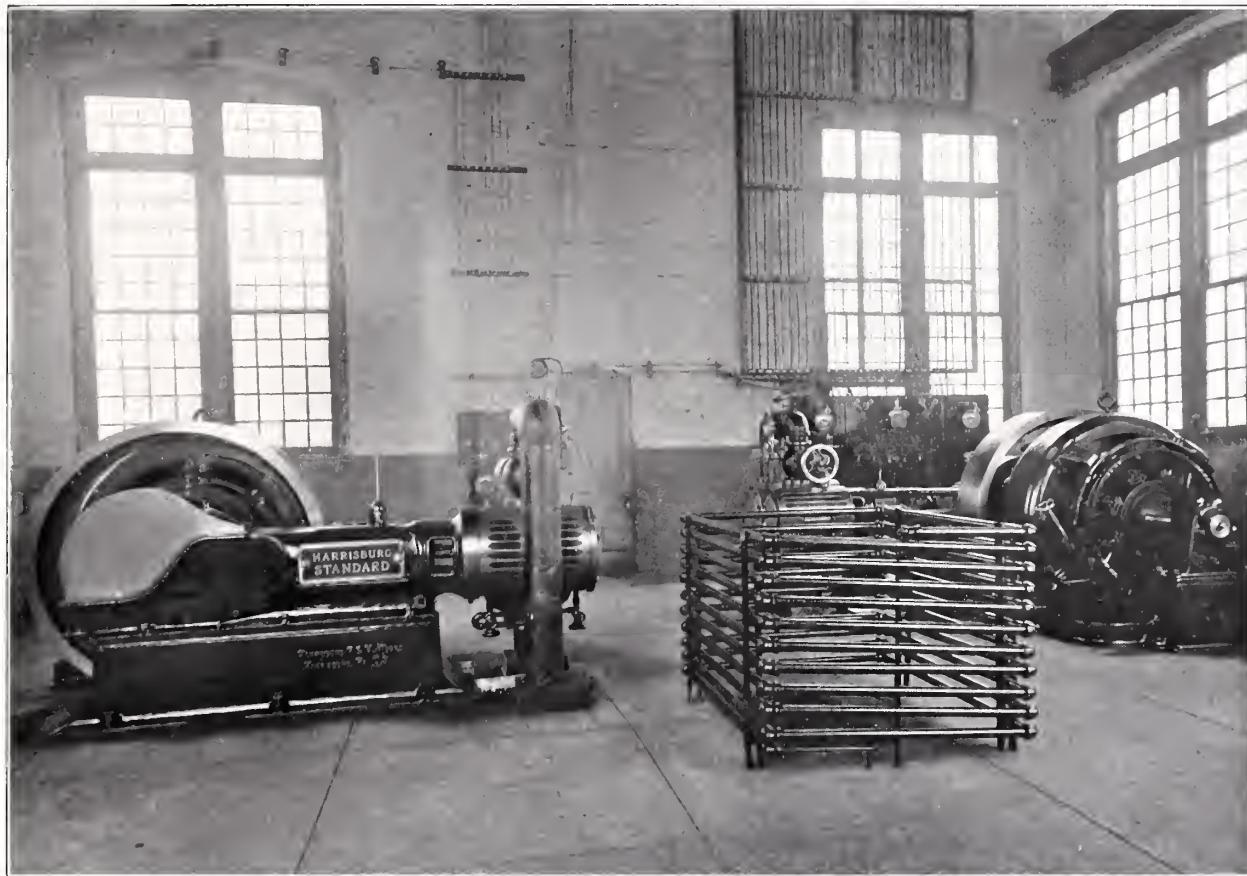
PASSAIC STEEL COMPANY.



THE UNIVERSAL PLATE MILL.

FOR FINISHING ROLLED EDGE PLATES UP TO 36 INCHES WIDE.

PASSAIC STEEL COMPANY.



A CORNER IN THE ELECTRIC POWER HOUSE.

PASSAIC STEEL COMPANY.



IN THE BLACKSMITH SHOP.

PASSAIC STEEL COMPANY.



VIEW IN THE MACHINE SHOP.

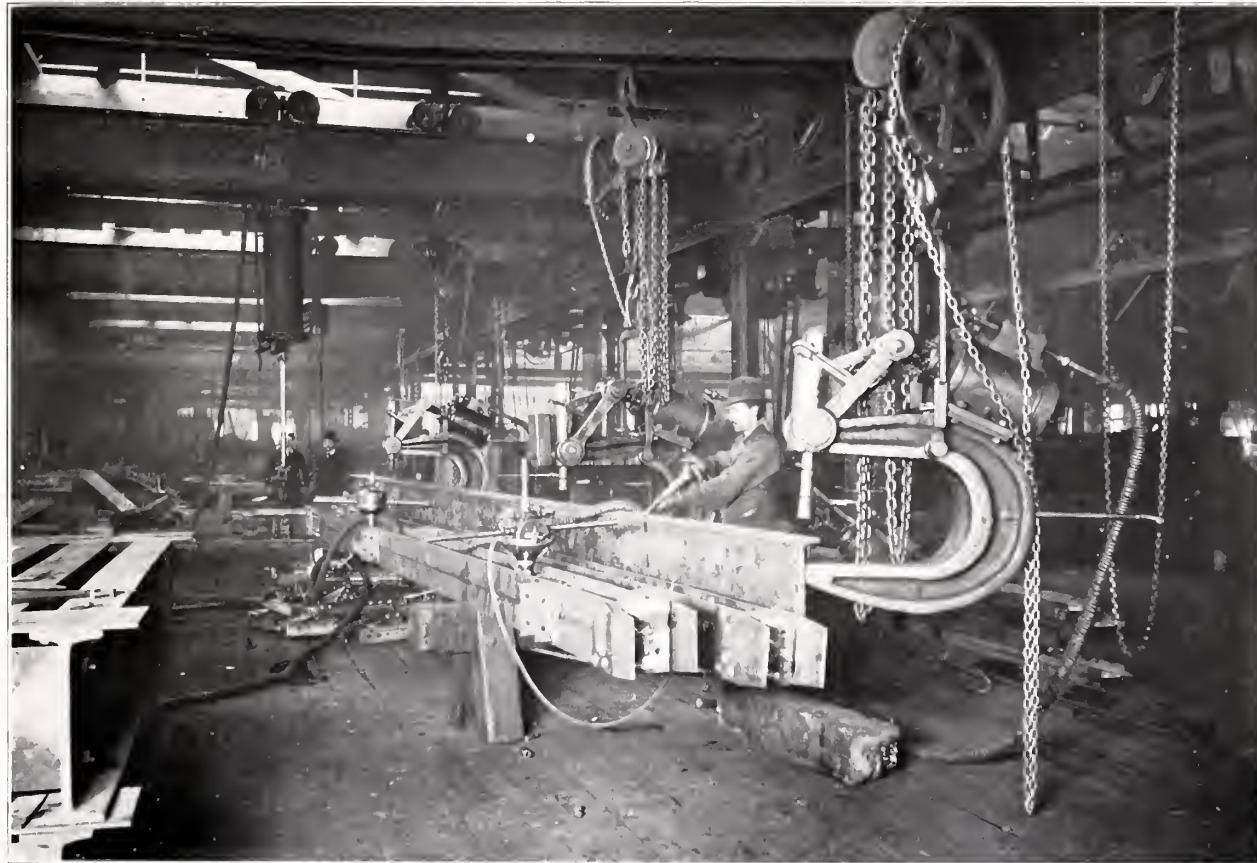
PASSAIC STEEL COMPANY.



THE STRUCTURAL SHOP.

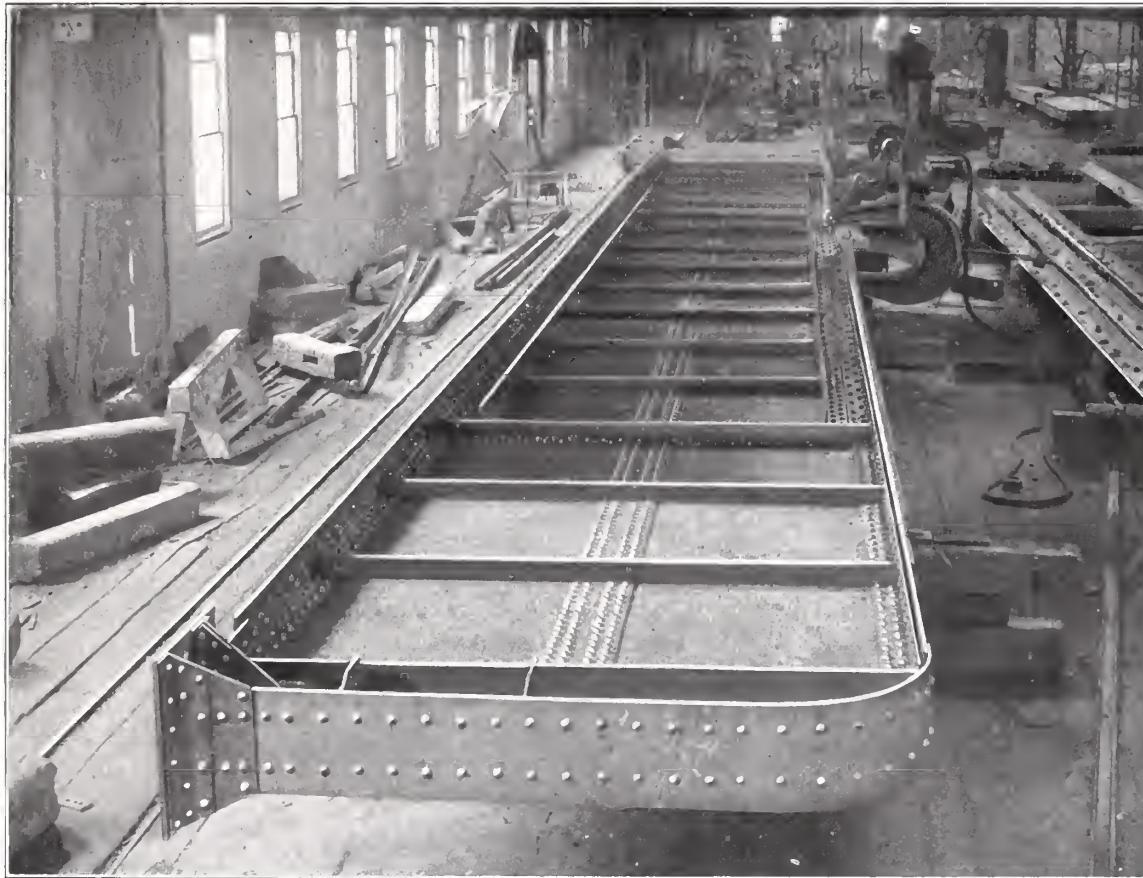
In the foreground a metal saw in operation cutting a steel column to required length.

PASSAIC STEEL COMPANY.



VIEW IN THE BRIDGE SHOP.

PASSAIC STEEL COMPANY.



IN THE BRIDGE SHOP.

VIEW OF A 50 TON PLATE GIRDER UNDER CONSTRUCTION.

PASSAIC STEEL COMPANY.



VIEW IN THE SHIPPING YARD.

Finished Material Loaded by Electric Cranes on Cars for Shipment via Erie or Lackawanna Railroads.



SOME ILLUSTRATIONS ▷ ▷

Of a few of the several thousand structures
for which the Iron and Steel work has been
furnished during the past 33 years by the
PASSAIC ROLLING MILL COMPANY

* * NOW * *

Passaic Steel Company,

PATERSON, NEW JERSEY.

PASSAIC STEEL COMPANY.



CENTER PIER

WASHINGTON BRIDGE, HARLEM RIVER, NEW YORK CITY.

Built in 1887-88.

PASSAIC STEEL COMPANY.



HIGHWAY BRIDGE OVER PASSAIC RIVER, BELLEVILLE, N. J.

Built in 1878.

PASSAIC STEEL COMPANY.



ELEVATED RAILROADS, NEW YORK CITY.

SEVERAL MILES OF THESE RAILROADS BUILT IN 1878-1880.

PASSAIC STEEL COMPANY.



MEADS CREEK BRIDGE, D. L. AND W. R. R., BIG FLATS, N. Y.

Two Spans of 130 Feet. Built in 1880.

PASSAIC STEEL COMPANY.



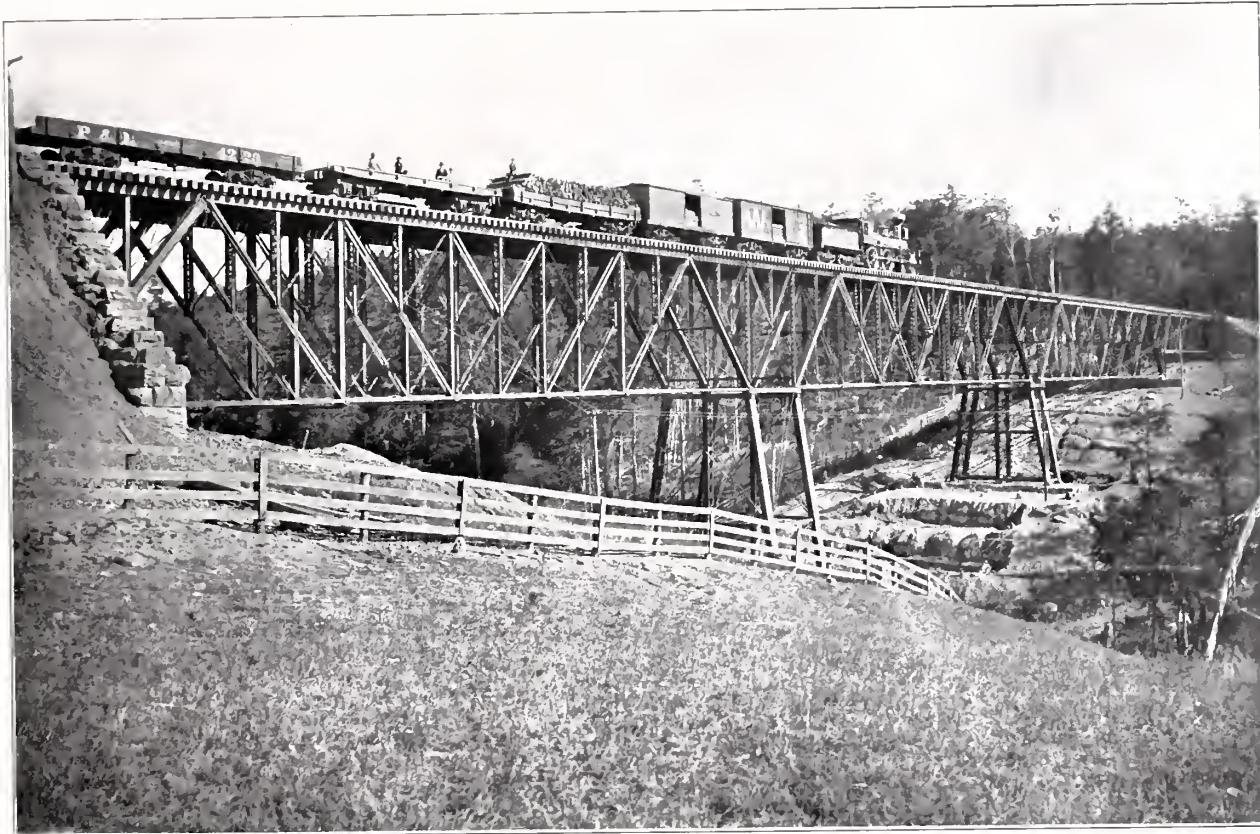
VIADUCT FOR N. Y., O. AND W. R. R., LIBERTY FALLS, N. Y.

Length, 978 Feet.

Built in 1881.

Height, 92 Feet.

PASSAIC STEEL COMPANY.

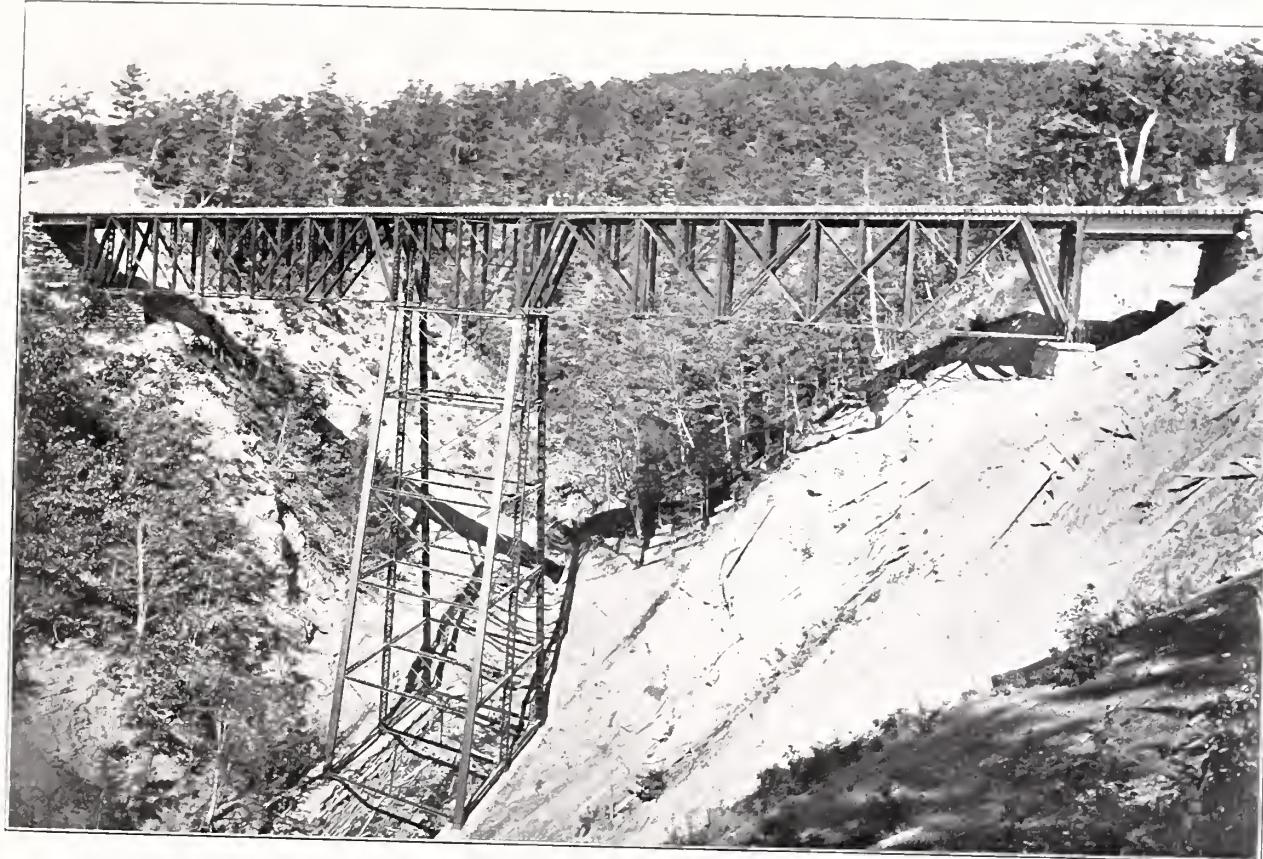


LITTLE MILL CREEK TRESTLE, D. L. AND W. R. R., WAYLANDS, N. Y.

Double Track. Total Length, 535 feet. Extreme Height, 118 feet.

Built in 1881.

PASSAIC STEEL COMPANY.



CULBERTSON'S GLEN, D. L. AND W. R. R., DANSVILLE, N. Y.

Length, 361 Feet.

Built in 1882.

Height, 164 Feet.

PASSAIC STEEL COMPANY.



D. L. AND W. R. R. CROSSING OF ERIE R. R. AT EAST BUFFALO, N. Y.

Length, 650 Feet.

Built in 1882.

Double Track.

PASSAIC STEEL COMPANY.



SUSQUEHANNA RIVER BRIDGE, D. L. AND W. R. R., OWEGO, N. Y.

8 Spans of 135 Feet.

Built in 1882.

Double Track.



PASSAIC STEEL COMPANY.



OHIO BASIN DRAW, D. L. AND W. R. R., BUFFALO, N. Y.

Length, 133 Feet.

Built in 1882.

Double Track.

PASSAIC STEEL COMPANY.



BRIDGE OVER PASSAIC RIVER, D. L. AND W. R. R., WEST PATERSON, N. J.

Double Track.

Length, 643 Feet.

Height, 85 Feet.

Built in 1883.

PASSAIC STEEL COMPANY.



ROCKAWAY RIVER BRIDGE, D. L. AND W. R. R., BOONTON, N. J.

One Span, 136 Feet.

Built in 1883.

Double Track.

PASSAIC STEEL COMPANY.



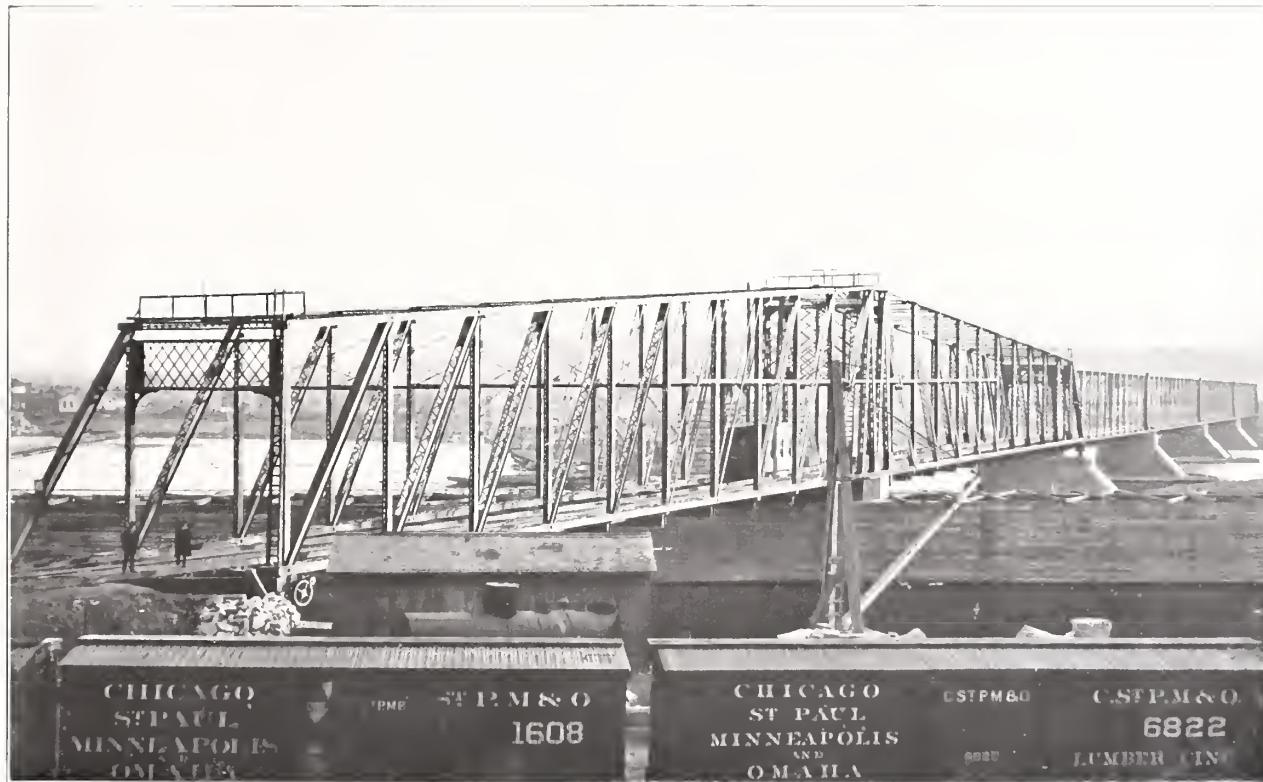
HOBOKEN ELEVATED R. R., HOBOKEN, N. J.

Total Length, $2\frac{1}{2}$ Miles.

Built in 1884 and 1889.

Extreme Height, 95 Feet.

PASSAIC STEEL COMPANY.



MISSISSIPPI RIVER BRIDGE, M. AND N. W. RY., ST. PAUL, MINN.

Draw Span, 432 Feet.

Built in 1885.

Single Track

PASSAIC STEEL COMPANY.



SUSQUEHANNA RIVER BRIDGE, ERIE R. R., SUSQUEHANNA, PA.

Four Spans of 156 Feet.

Built in 1886.

Double Track.

PASSAIC STEEL COMPANY.



HACKENSACK DRAWBRIDGE, ERIE R. R., SECAUCUS, N. J.

Length, 210 Feet.

Built in 1887.

Double Track.

PASSAIC STEEL COMPANY.



WASHINGTON BRIDGE, HARLEM RIVER, NEW YORK CITY.

Two Spans of 510 feet each. Width of Bridge, 80 feet. Weight of Metal Superstructure, 8,000 tons.

Built in 1887-88.

PASSAIC STEEL COMPANY.



WASHINGTON BRIDGE, HARLEM RIVER, NEW YORK CITY.

VIEW DURING CONSTRUCTION, 1888.

PASSAIC STEEL COMPANY.



JEFFERSON TRESTLE, ERIE R. R., STARRUCCA, PA.

Length, 480 Feet.

Double Track.

Height, 90 Feet.

Built in 1888.

PASSAIC STEEL COMPANY.



DELAWARE RIVER BRIDGE, D. L. AND W. R. R., DELAWARE, N. J.

Five Spans of 144 Feet.

Built in 1900.

Double Track.

PASSAIC STEEL COMPANY.



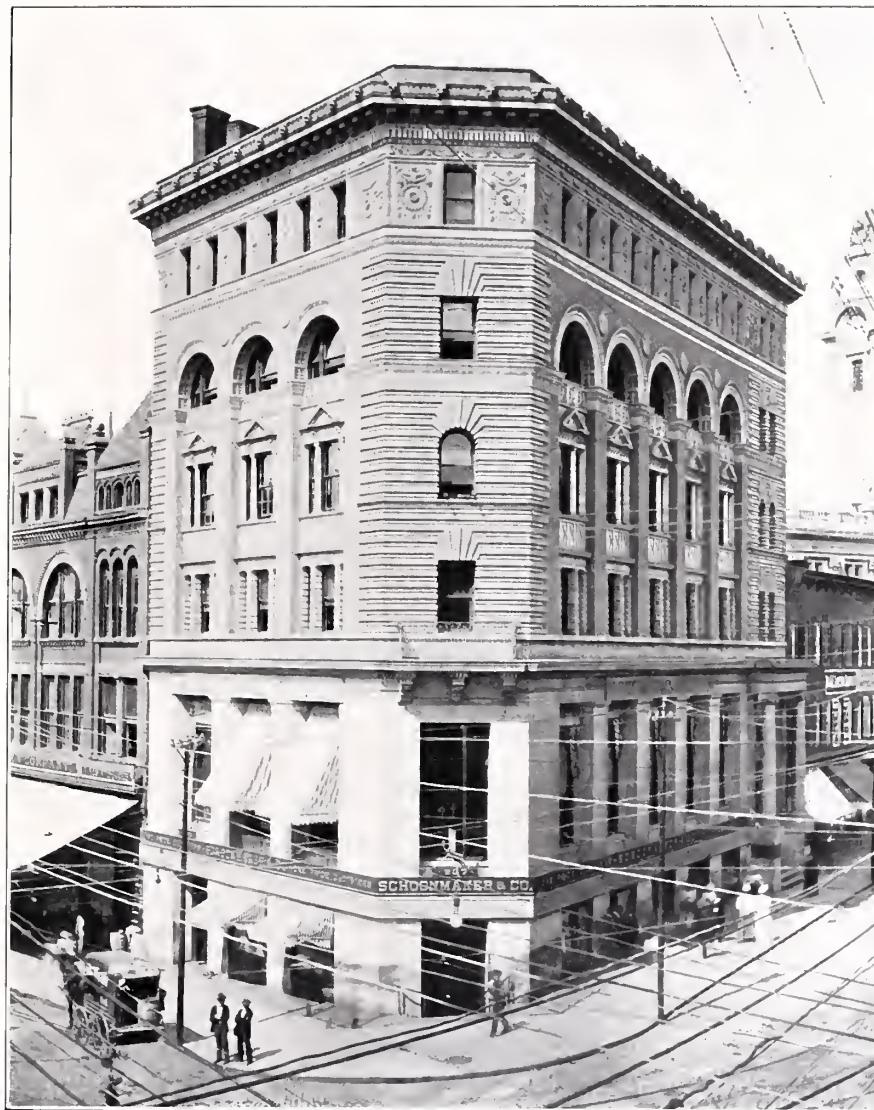
RANSBERRY BRIDGE, D. L. AND W. R. R., HENRYVILLE, PA,

Two Main Spans of 145 Feet.

Built in 1891.

Double Track.

PASSAIC STEEL COMPANY.



PATERSON SAVINGS INSTITUTION BUILDING.

PATERSON, N. J.

Built in 1891.

PASSAIC STEEL COMPANY.



ELEVATORS AND VIADUCT AT WEEHAWKEN, N. J.

Length of Structure, 1,000 Feet.

Built in 1891.

Height of Elevated R. R., 155 Feet.

PASSAIC STEEL COMPANY.



BELLS BRIDGE, D. L. AND W. R. R., DELAWARE WATER GAP, PA.

Two Truss Spans of 144 Feet. One Plate Girder Span of 94 Feet, Double Track.

Built in 1901.

PASSAIC STEEL COMPANY.

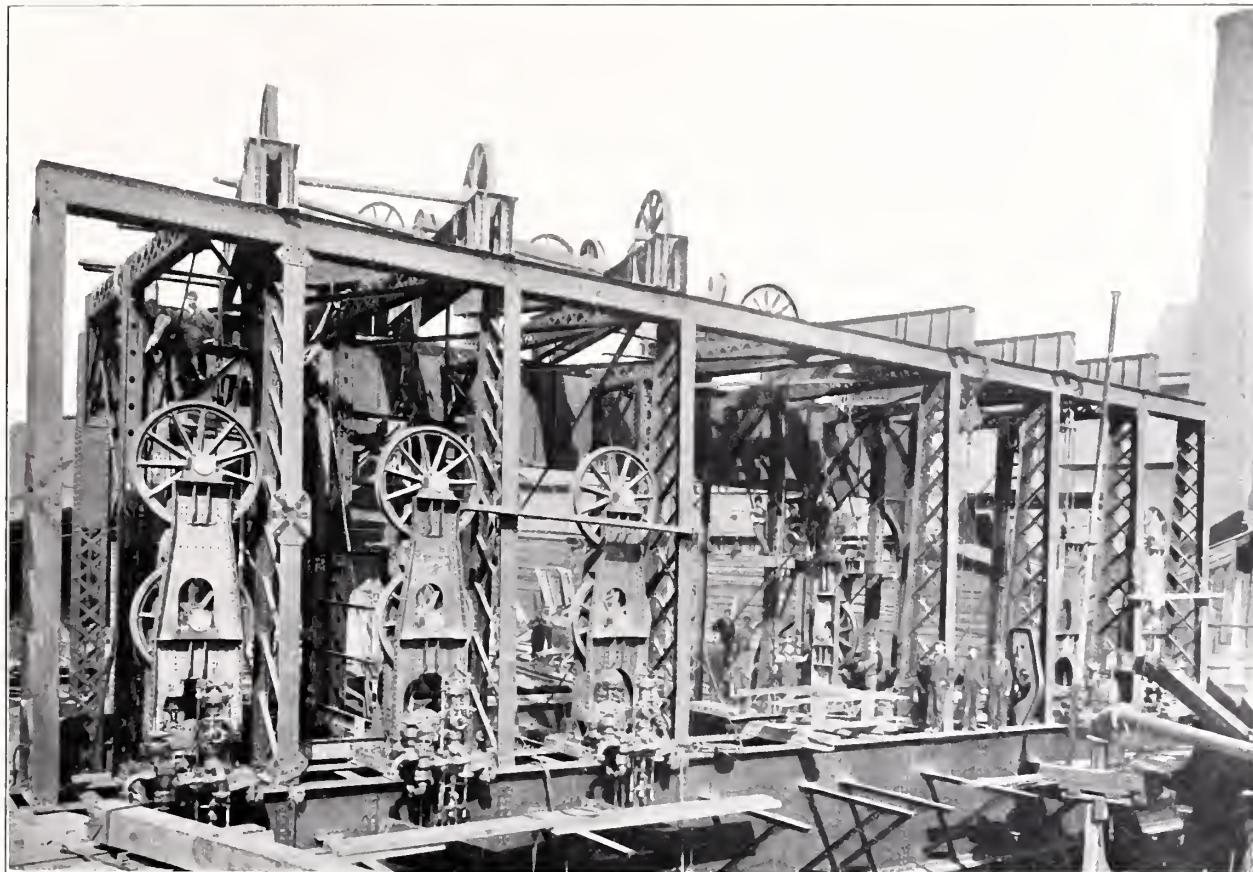


CITY HALL AND SECOND NATIONAL BANK BUILDINGS.

PATERSON, N. J.

Built in 1893 and 1891.

PASSAIC STEEL COMPANY.



GLASCOW HARBOR TUNNEL ELEVATORS, GLASCOW, SCOTLAND.

STRUCTURAL STEEL WORK FURNISHED IN 1893.

PASSAIC STEEL COMPANY.



ARMORY AT PATERSON, N. J.

Span, 140 Feet.

Built in 1894.

Height, 66 Feet.

PASSAIC STEEL COMPANY.



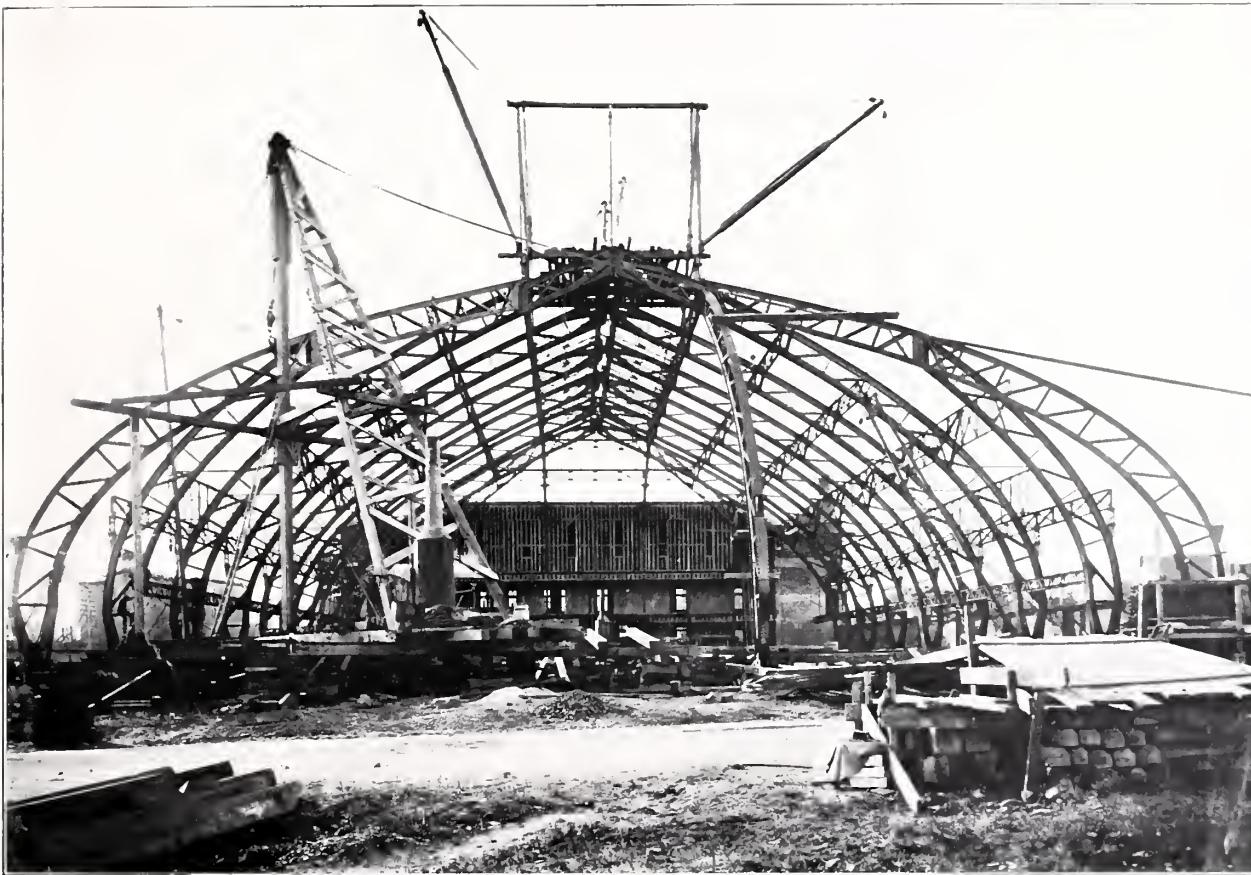
CENTRAL BRIDGE, OVER HARLEM RIVER AT 155TH ST., NEW YORK CITY.

Draw Span, 420 feet long, 66 feet wide, weight 2500 tons.

Built in 1893-94.

Eastern Approach Viaduct, 2200 feet long.

PASSAIC STEEL COMPANY.



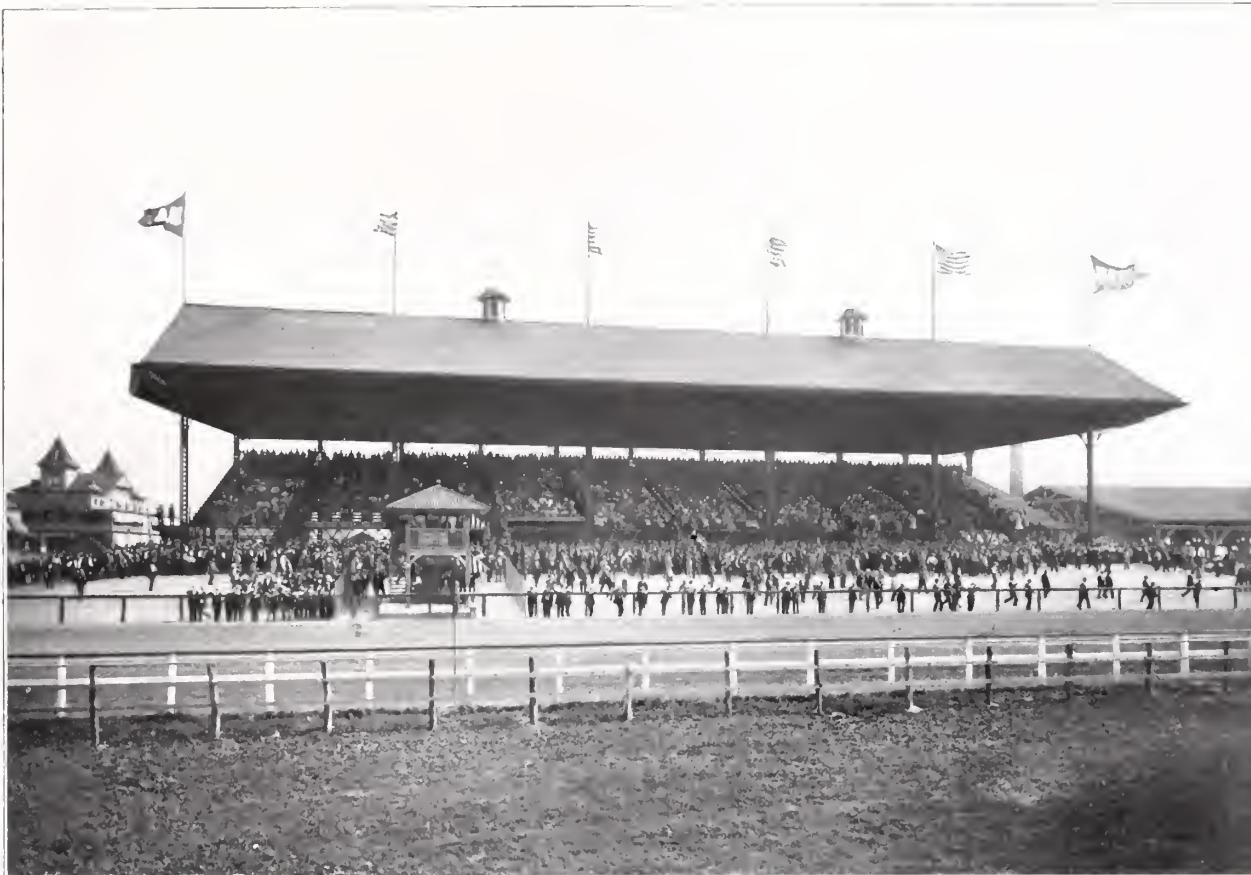
ARMORY AT PATERSON, N. J.

Span, 140 Feet.

Built in 1894.

Height, 66 Feet.

PASSAIC STEEL COMPANY.



GRAND STAND, BRIGHTON BEACH RACING ASSOCIATION.

Brighton Beach, N. Y.

Built in 1897.

Fire Proof Construction.

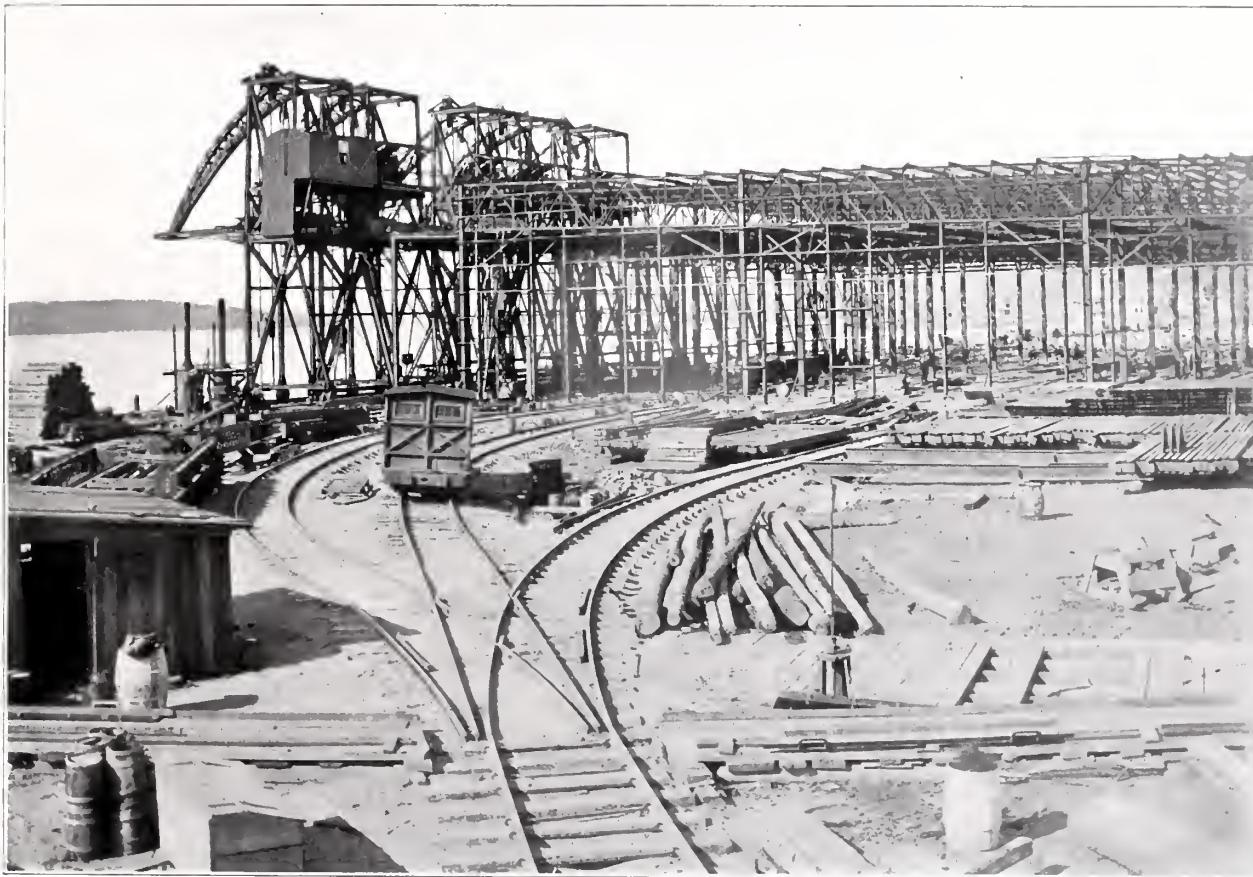
PASSAIC STEEL COMPANY.



FOURTH STREET BRIDGE, NEWARK, N. J.

Draw Span, 227 feet long, 67 feet wide, weight, 900 tons. Total length of Structure, 720 feet. Built in 1897.

PASSAIC STEEL COMPANY



COAL STORAGE PLANT, CALUMET AND HECLA CO., TORCH LAKE, MICH.

Built in 1898.

PASSAIC STEEL COMPANY.



COURT HOUSE, PATERSON, N. J.

Built in 1897-99.

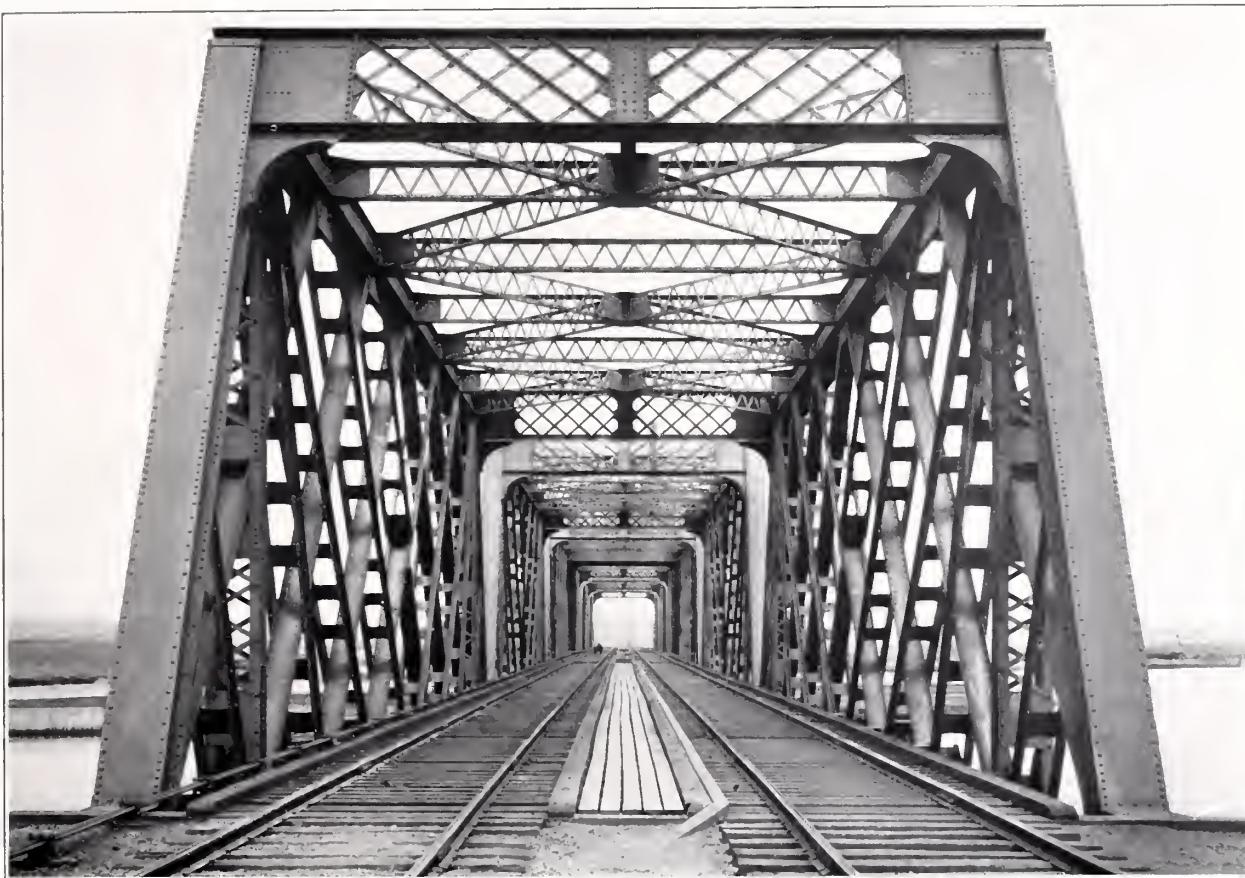
PASSAIC STEEL COMPANY.



ELECTRIC TOWER, PAN AMERICAN EXPOSITION, BUFFALO, N. Y.

Weight of Steel Framework, 1000 Tons. Built in 1900. Height of Tower, 395 Feet.

PASSAIC STEEL COMPANY.



HACKENSACK RIVER BRIDGE, D. L. AND W. R. R., SECAUCUS, N. J.

Four Fixed Spans of 125 Feet.

Built in 1900.

Draw Span of 234 Feet.

PASSAIC STEEL COMPANY.



ARMORY AT SCRANTON, PA.

Span, 156 Feet.

Built in 1901.

Height, 52 Feet.

PASSAIC STEEL COMPANY.



NEW HIGH BRIDGE, D. L. AND W. R. R., PASSAIC RIVER, WEST PATERSON, N. J.

Length, 645 Feet.

Height, 60 Feet.

Double Track.

Built in 1901.

PASSAIC STEEL COMPANY.



NEW HACKENSACK RIVER BRIDGE, D. L. AND W. R. R., SECAUCUS, N. J.

Four Fixed Spans of 125 Feet.

Draw Span, 236 Feet.

Double Track.

Built in 1901.

PASSAIC STEEL COMPANY.



DEPARTMENT STORE, QUACKENBUSH & CO., PATERSON, N. J.

Built in 1902.

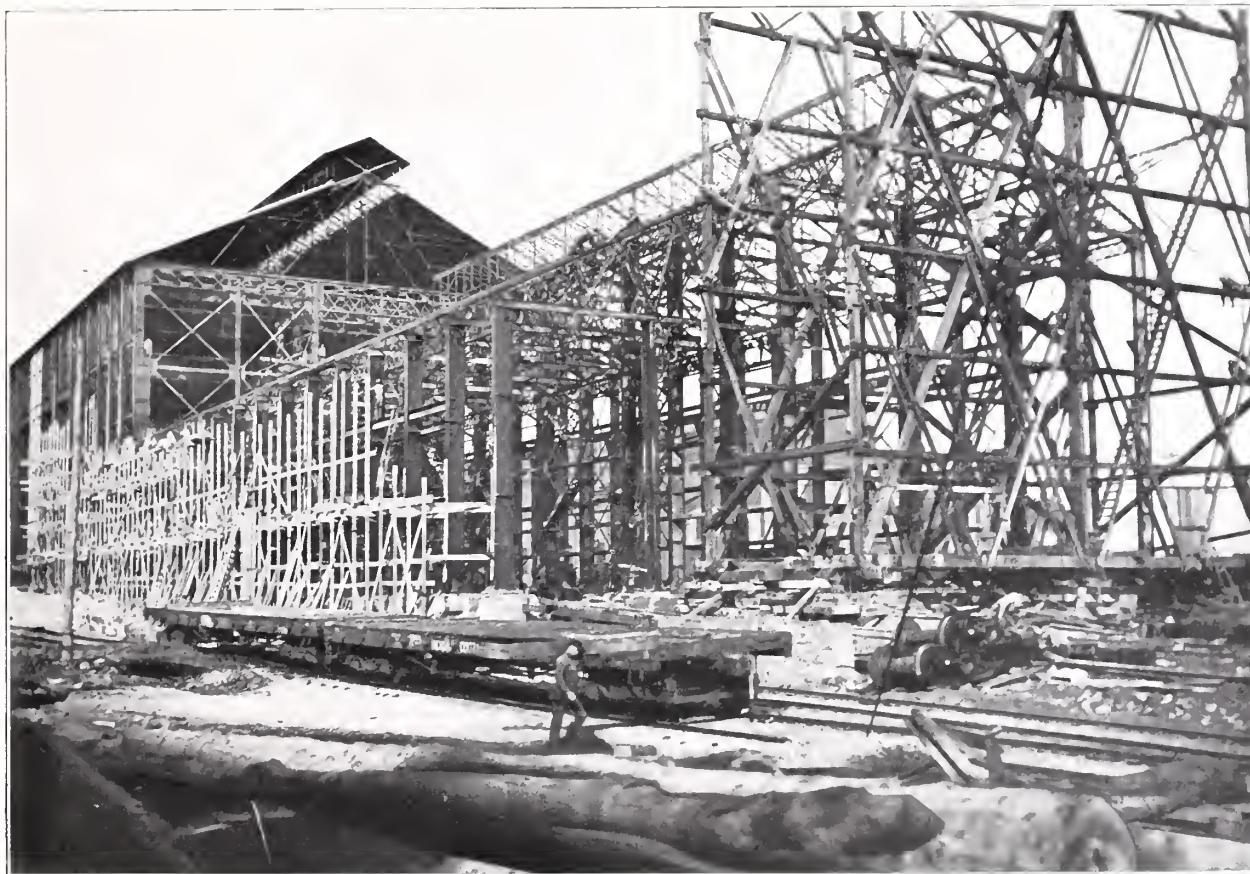
PASSAIC STEEL COMPANY.



A BLOCK OF BUILDINGS IN PATERSON, N. J.

Built in 1902.

PASSAIC STEEL COMPANY.



BESSEMER STEEL WORKS, LACKAWANNA STEEL CO., BUFFALO, N. Y.

Length of Building, 700 Feet.

Width, 100 Feet.

Height, 110 Feet.

Weight of Structural Steel Framework, 5000 Tons.

Built in 1902.

PASSAIC STEEL COMPANY.



DEPARTMENT STORE, MEYER BROTHERS, PATERSON, N. J.

Built in 1902.

